

DESCRIPTION

PRODUCTION PROCESS OF A HETEROARYL BORON COMPOUND USING AN

IRIDIUM CATALYST

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Technical Field

entered.
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The present invention relates to a production process of an aromatic heterocyclic boron compound that uses an iridium-containing catalyst. An aromatic heterocyclic boron compound produced according to the present invention can be used as a reaction substrate when producing biaryl derivatives and polyaryl derivatives that are useful as pharmaceutical and agricultural chemical intermediates as well as functional organic materials.

Background Art

Various processes have been proposed in the prior art for boronation of aromatic hydrocarbons. For example, processes are known for lithiation, halogenation or boronation after converting to a trifurate of a benzene ring, examples of which include (1) a process using aryl halide or aryl trifurate and pinacol diboron (P. Rocca et al., J. Org. Chem., 58, 7832, 1993), (2) a process involving reaction with boric ester following lithiation of an aromatic ring, and (3) a process involving